

One Water & Stewardship Committee

Update on Metropolitan's Activities on Non-Functional Turf

Item 6d April 10, 2023

Advancing Regional Non-functional Removal

Non-Functional Turf (NFT) Efforts

- Incentives-based
 - Grants
- Sample ordinance / Board resolution
 - Passed in 2022
- New water allocation methodology for NFT in drought emergency
 - Data gathering underway
- State legislation
 - Part of 2023 legislative strategic plan

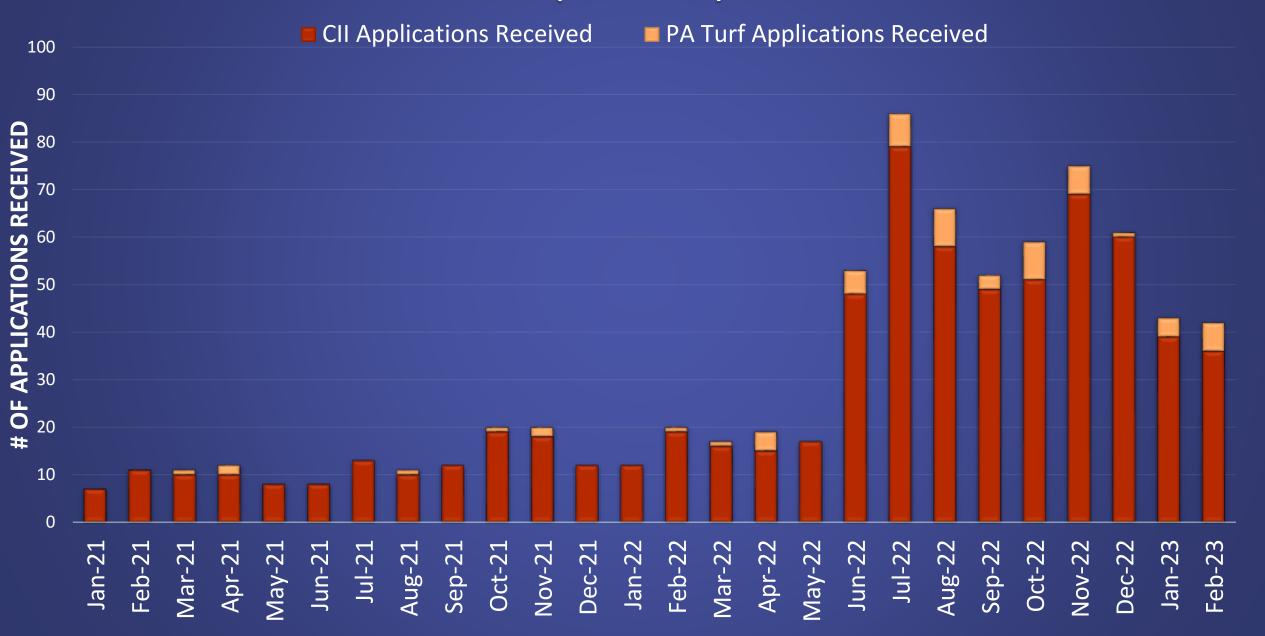
Non-functional Turf Removal Incentives

Turf Replacement Program Incentive Structure Change

Potential Increase in Turf Replacement Incentive

- \$4 million in grants received to increase incentive
 - CII \$3 sq.ft.
 - Funding exhausted within 30 days
 - Public Agency \$4 sq.ft.
- Continue to seek outside funding to achieve effort

CII and Public Agency Turf Replacement Applications Received (2021-2023)



Non-functional Turf Ordinance Development

What Did Metropolitan do to Encourage Ordinance Adoption?

Non-Functional Turf Ordinance Development

- Cities have water efficiency ordinances
 - Most have permanent ban section
- Metropolitan provided sample language to be added
- Metropolitan Board resolution encouraging adoption of ordinance language

Planetscape AI Turf Dashboard

Planetscape AI Turf Dashboard

Understanding Turf Prevalence in MWD Service Area

- Utilize turf dashboard development by Planetscape AI for future planning
 - How much turf is there?
 - Where is it located?
 - How much is really NFT?
- Second year agreement to refine dashboard and add retailer data

Approximately 9.5 Billion Square Feet of Established Turf within MWD service area



Total Non-Functional Turf*
1.18B sqft

*includes industrial, commercial, utility, facilities and general office

Total Functional Turf* 8.3B sqft

*includes all other land uses except open space, vacant, agriculture, or protected land

Water conservation remains the most cost-efficient means to reduce water consumption. In response this insights and analysis platform was created to provide a definitive baseline of non-functional ruf in Metropolitan's service area, proxiding estimates by member agency and land use. These estimates a lade yneproam offices to test how different scenarios will meet the expected outcome and budget of a non-functional ruf removal program. The platform contains a series of interactive dashboards providing access to aerial imagery, land cover classifications and flaul uses. By selecting what had use are renon-functions (a, q commencial, inclustrial and utility), users can interactively query the amount of turf in those areas as well as what parcel groups contain the most turf. Once those land user are selected, the dashboard produced and the center map or the results can be downlosded as a CSV.

What is the Dashboard?

How to use this application.





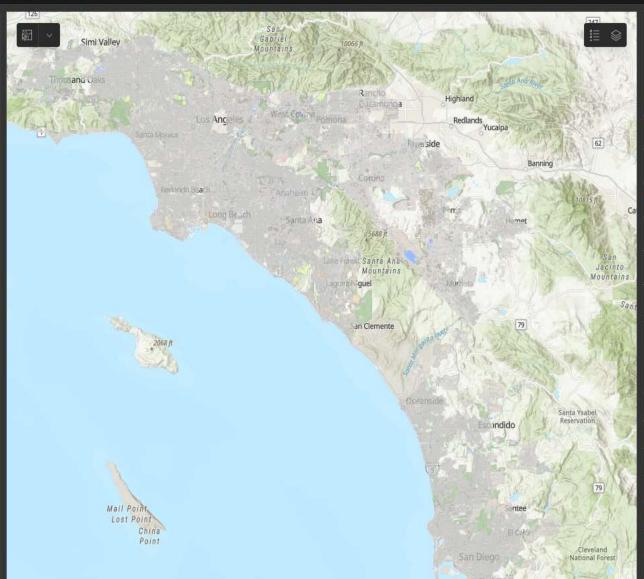


Output Tables Listed in Order of Highest Use





Step 1: Select Land Uses Single Family Residential Open Space Vacant or Under Construction Multi-Family Residential Agriculture Golf Course Parks Education Transportation and Utility Industrial Commercial **Facilities** Undevelopable or Protected Land Military Cemetery Water Airport General Office Mixed Use Transportation and Utility Park Vacant and Under Construction Transporation and Utilities 2G 4G



Step 2: Explore by Parcel Group

Open Space #250192: 119,731,873

MWDOC

Open Space #454528: 106,460,857

Los Angeles

Open Space #204687: 73,161,010

Inland_Empire

Open Space #105611: 38,656,918

Calleguas

Open Space #169220: 37,116,382

Eastern

Vacant or Under Construction #216829: 30,938,996

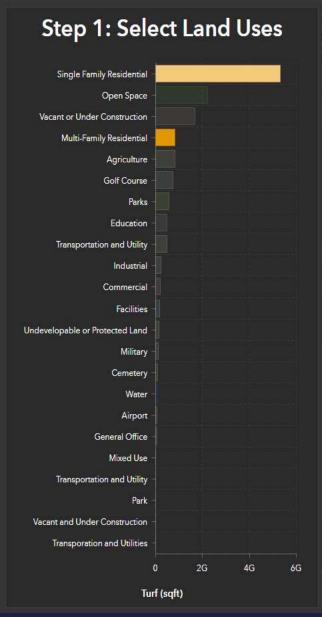
Inland Empire

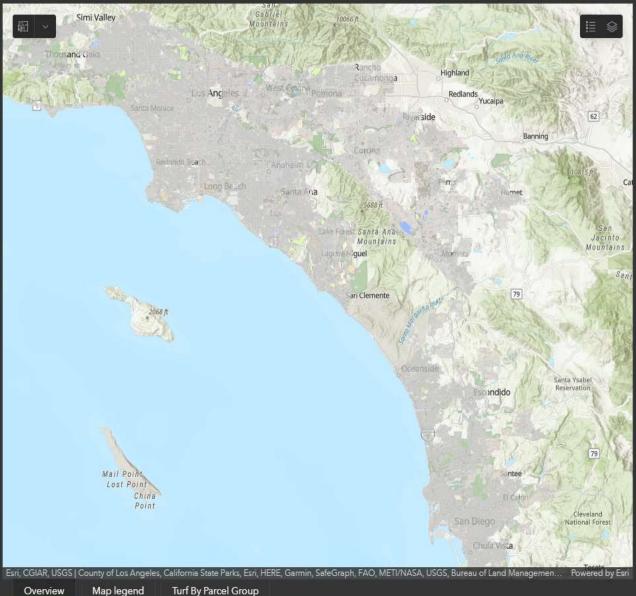
Single Family Residential #269069: 24,123,306

MWDOC

Land Use	Turf (sqft)
Single Family Residential	5,325,956,681
Open Space	2,207,636,385
Vacant or Under Construction	1,667,992,205
Multi-Family Residential	823,057,521
Agriculture	811,175,130
Golf Course	726,501,759

Over Half of Established Turf is on Residential Property





Step 2: Explore by Parcel Group

Single Family Residential #269069: 24,123,306 MWDOC

Single Family Residential #56102: 20,787,161 SDCWA

Single Family Residential #253456: 14,680,166 MWDOC

Single Family Residential #267514: 12,613,166 MWDOC

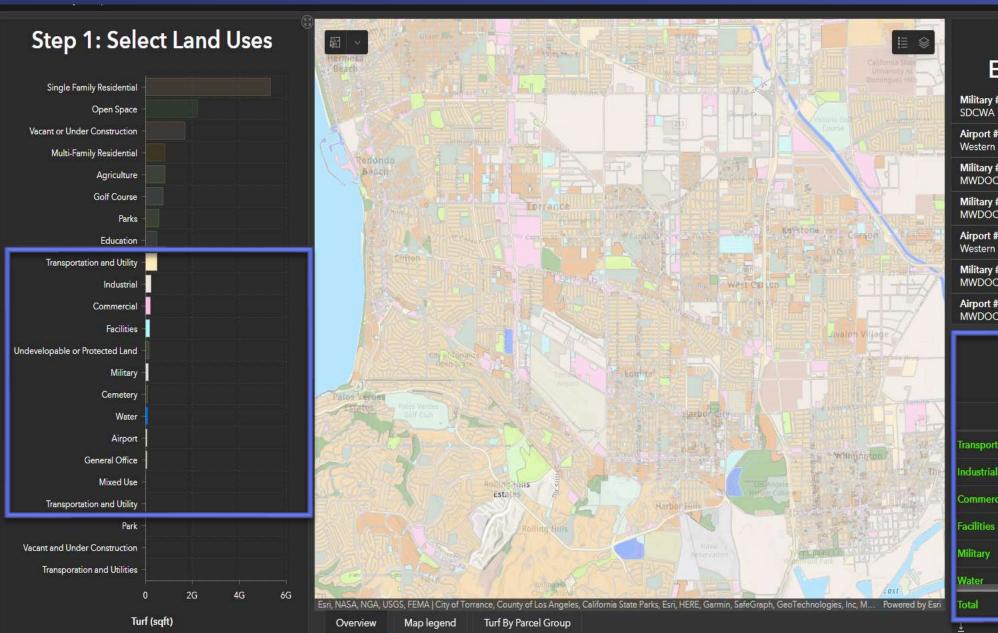
Single Family Residential #295681: 12,124,626 Three_Valleys

Single Family Residential #64287: 10,828,372 SDCWA

Single Family Residential #267655: 10,005,397 MWDOC

Land Use	Turf (sqft)
Single Family Residential	5,325,956,681
Multi-Family Residential	823,057,521
War	W 440 044 202

Category Selection Allows for Customized NFT Calculations



Step 2: **Explore by Parcel Group**

Military #13737: 21,809,147 **SDCWA**

Airport #352956: 12,359,507

Military #242456: 11,160,857

MWDOC

Military #242450: 10,522,406 MWDOC

Airport #352960: 7,787,947

Military #242459: 7,787,822

MWDOC

Airport #234820: 7,682,137

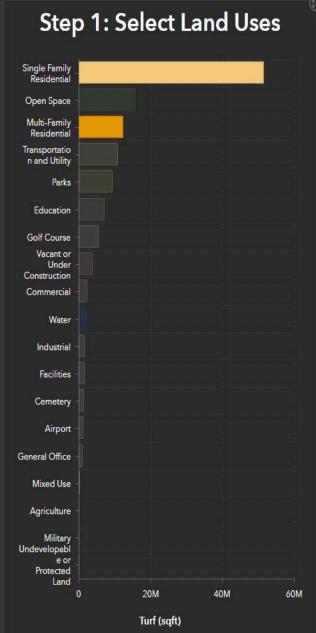
MWDOC

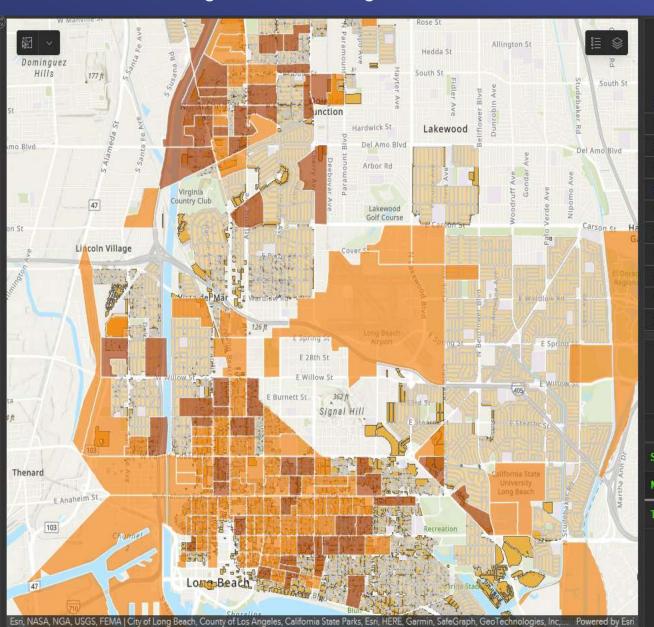
Turf (sqft)
480,328,467
238,124,812
209,506,157
180,594,546
105,201,828
86.343.649
1,456,661,353

Parcel Groups Listed by Turf Square Footage



Underserved Community Overlay Available





Turf By Parcel Group

Overview

Map legend

Step 2: Explore by Parcel Group

Single Family Residential #12175: 316,851

Multi-Family Residential #3831: 209,686

Single Family Residential #13174: 205,623

Multi-Family Residential #6575: 178,044

Single Family Residential #13175: 169,693

Single Family Residential #12185: 162,915

Single Family Residential #12752: 161,773

Multi-Family Residential #5922: 157,260

Multi-Family Residential #5191: 152,224

Single Family Residential #12203: 101,893

Single Family Residential #10351: 99,617

Land Use	Turf (sqft)
Single Family Residential	51,415,392
Multi-Family Residential	12,280,605
Total	63,695,997

Legislation to Ban Watering of Non-Functional Turf

AB 1572

Non-Functional Turf Legislation

- Introduced by Assembly Member Friedman
- Bans the use of potable water for the irrigation of NFT on CII properties
 - Requires SWRCB to develop compliance and certification procedures
 - Requires annual compliance audits for two hydrologic regions
- NFT is defined as turf not designated by a property owner or government agency for recreational use or public assembly

Next Steps

- Continue to seek outside funding for turf replacement incentives
- Continue to promote draft ordinance language to member agencies and retailers
- Continue work with Planetscape AI to refine turf dashboard
- Discuss possible support of AB 1572 with Board and member agency staff

